

US 20100041885A1

(19) United States (12) Patent Application Publication (10) Pub. No.: US 2010/0041885 A1

Perlman et al.

(54) CRYSTALLINE FORMS OF SITAGLIPTIN PHOSPHATE

(76) Inventors: Nurit Perlman, Kfar Saba (IL); Revital Ramaty, Ramat-Hasharon (IL); Mili Abramov, Givataim (IL); Nina Finkelstein, Herzliya (IL); Eli Lancry, Modiin (IL); Shay Asis, Rishon Lezion (IL); Ariel Mittelman, Elad (IL)

> Correspondence Address: **KENYON & KENYON LLP ONE BROADWAY** NEW YORK, NY 10004 (US)

(21) Appl. No.: 12/410,738

DOCKE

RM

(22) Filed: Mar. 25, 2009

Related U.S. Application Data

(60) Provisional application No. 61/154,491, filed on Feb. 23, 2009, provisional application No. 61/201,304, filed on Dec. 8, 2008, provisional application No. 61/190,868, filed on Sep. 2, 2008, provisional application No. 61/092,555, filed on Aug. 28, 2008, provisional application No. 61/090,736, filed on Aug. 21, 2008, provisional application No. 61/189,128, filed on Aug. 14, 2008, provisional application No. 61/070, 866, filed on Mar. 25, 2008, provisional application

Feb. 18, 2010 (43) **Pub. Date:**

No. 61/201,860, filed on Dec. 15, 2008, provisional application No. 61/191,933, filed on Sep. 11, 2008, provisional application No. 61/091,759, filed on Aug. 26, 2008, provisional application No. 61/137,489, filed on Jul. 30, 2008, provisional application No. 61/134,598, filed on Jul. 10, 2008.

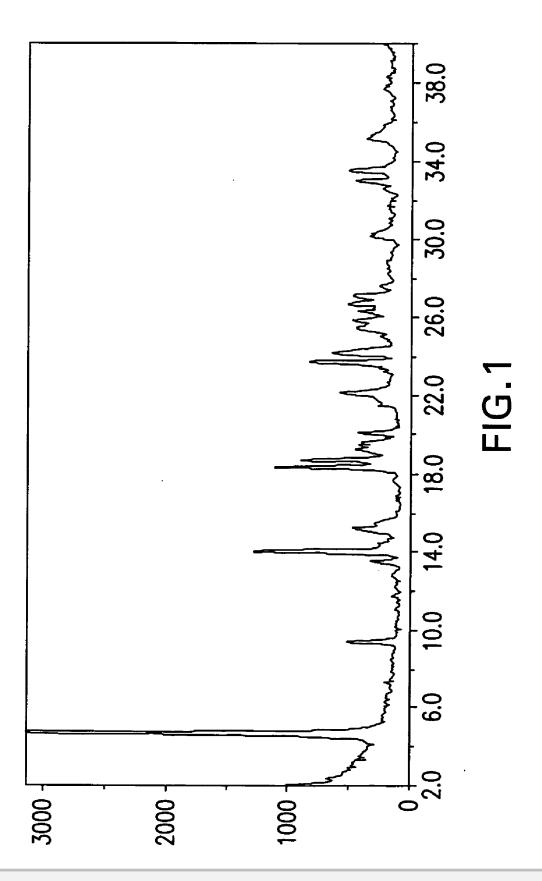
(2006.01)

Publication Classification

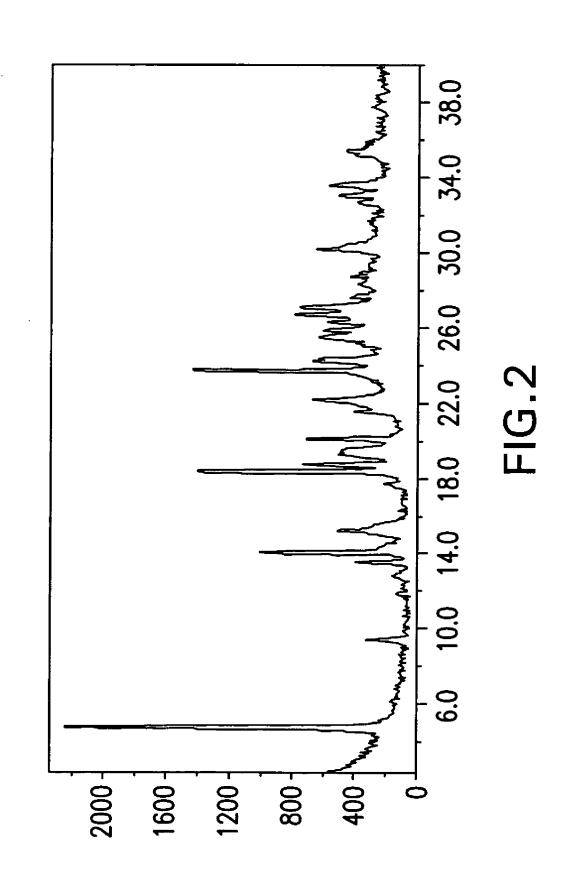
- (51) Int. Cl. C07D 471/08
- (52) U.S. Cl. 544/350

ABSTRACT (57)

A Sitagliptin phosphate characterized by data selected from the group consisting of: a powder XRD pattern with peaks at 4.7, 13.5, 17.7, 18.3, and 23.7±0.2 degrees two theta; a powder XRD pattern with peaks at about 4.7, 13.5, and 15.5±0.2 degrees two theta and at least another two peaks selected from the following list: 14.0, 14.4, 18.3, 19.2, 19.5 and 23.7±0.2 degrees two theta; and a powder XRD pattern with peaks at about 13.5, 19.2, and 19.5±0.2 degrees two theta and at least another two peaks selected from the following list: 4.7, 14.0, 15.1, 15.5, 18.3, and 18.7±0.2 degrees two theta; a powder XRD pattern with peaks at about 13.5, 15.5, 19.2, 23.7, and 24.4±0.2 degrees two theta; and a powder XRD pattern with peaks at about 4.65, 13.46, 17.63, 18.30, and 23.66±0.10 degrees two theta, processes for preparing said Sitagliptin crystalline form, and pharmaceutical compositions thereof, are provided.

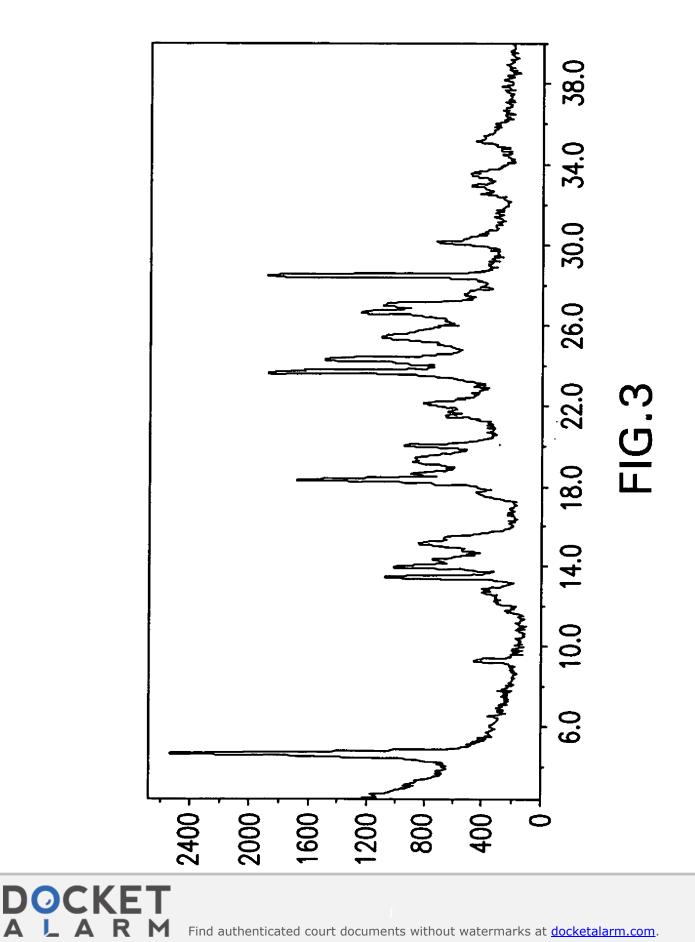


DOCKET ALARM Find authenticated court documents without watermarks at <u>docketalarm.com</u>.



DOCKET R Α M Find authenticated court documents without watermarks at docketalarm.com.

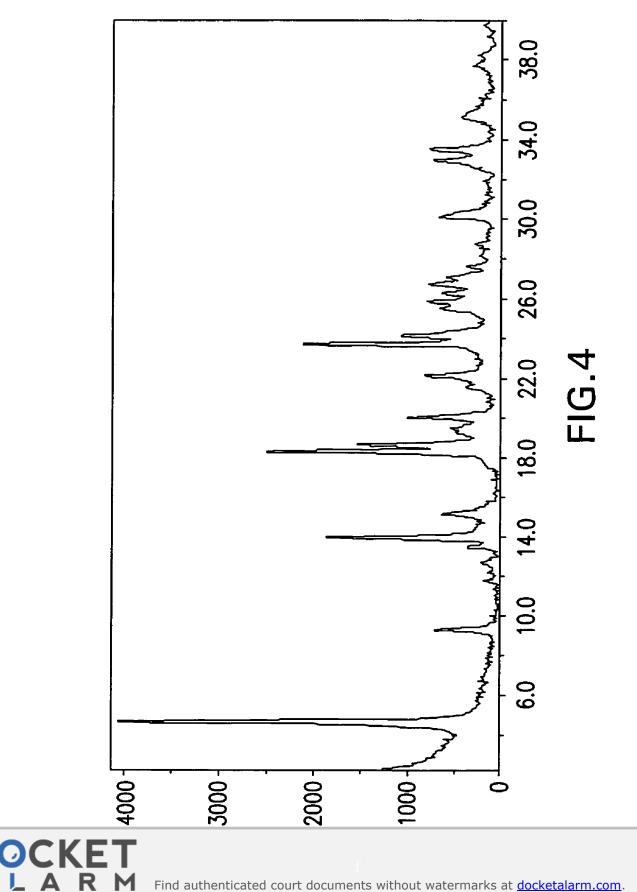
Α



Find authenticated court documents without watermarks at docketalarm.com.

Α

Α



Find authenticated court documents without watermarks at docketalarm.com.

D

Α

Α

DOCKET A L A R M



Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.